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 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, 18 August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**
Publisher: ACM [Request Permissions](#)
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Bibliometrics: Downloads (6 Weeks): 255, Downloads (12 Months): 1580, Downloads (All Time): 1580

The graphics processor (GPU) on today's commodity video cards has evolved into a general purpose processor. The latest graphics architectures provide tremendous memory bandwidth and fully programmable vertex ...

- 2** **Exploiting perception in high-fidelity virtual environments**
Additional presentations from the 24th course are available on 11/11/2006
 Mashhuda Ghencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Die July 2006 **SIGGRAPH '06: SIGGRAPH 2006 Courses**
Publisher: ACM [Request Permissions](#)
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The objective of this course is to provide an introduction to the issues that affect the design of high-fidelity 3D engaging shared virtual environments. The principles of human factors, algorithms and techniques ...

Keywords: collaborative environments, haptics, high-fidelity rendering, networked applications, perception, virtual reality

- 3** **Collaborative operating system and compiler power management for embedded systems**
 Nevine AbouGhazaleh, Daniel Mosse, Bruce R. Childers, Rami Melhem February 2006 **Transactions on Embedded Computing Systems (TECS)**
Publisher: ACM [Request Permissions](#)
Full text available: Pdf (733.43 KB) **Additional Information:** [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 153, Downloads (All Time): 153

Managing energy consumption has become vitally important to battery-powered systems. *Dynamic voltage scaling (DVS)* reduces the processor's dynamic power by linearly decreasing the ...

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Keywords: Real-time, collaborative OS and compiler, dynamic voltage points placement

4 [Performance OpenGL: platform independent techniques](#)

 Bob Kuehne, Tom Trua, Alan Commike, Dave Shreiner
July 2005 **SIGGRAPH '05: SIGGRAPH 2005 Courses**


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Full text available:  Pdf (3.76 MB)

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Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 158, Downl

5 [SEED: scalable, efficient enforcement of dependences](#)

 Francisco J. Mesa-Martinez, Michael C. Huang, Jose Renau

September 2006 **PACT '06: Proceedings of the 15th international conference techniques**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (447.38 KB)

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Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 21, Downloa

Instruction issue logic is a critical component in modern high-performan latencies found in modern processors, mostly associated with memory e using large issue ...

Keywords: energy-efficient design, issue logic, scalability

6 [Proceedings of the 2000 ACM/IEEE conference on Supercomputing](#)

Jed Donnelley


November 2000 **Supercomputing '00: Proceedings of the 2000 ACM/IEEE**

Publisher: IEEE Computer Society


[Additional Information: full citation, index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downl

7 [Communications of the ACM: Volume 52 Issue 4](#)


 April 2009 **Communications of the ACM**

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.58 MB) [Additional Information: full citation](#)


Bibliometrics: Downloads (6 Weeks): 580, Downloads (12 Months): 2434, Dov

8 [Spectral probing, crosstalk and frequency multiplexing in internet pal](#)

 Partha Kanuparth, Constantine Dovrolis, Mostafa Ammar

October 2008 **IMC '08: Proceedings of the 8th ACM SIGCOMM conference c**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (794.86 KB)


[Additional Information: full citation, abs](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 187, Downl


We present an end-to-end active probing methodology that creates freq signals are generated by periodic packet trains that cause short-lived qu multiplexed in the ...

Keywords: active probing, distributed agents, fourier transform, frequency processing

9 Resource aware programming in the Pixie OS

 Konrad Lorincz, Bor-rong Chen, Jason Waterman, Geoff Werner-Allen, Matt November 2008 **SenSys '08: Proceedings of the 6th ACM conference on Embedded Systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (756.12 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 300, Downloads

This paper presents Pixie, a new sensor node operating system designed for embedded applications. These applications, which include high-resolution monitoring of signals, involve high ...


Keywords: resource reservations, resource-aware programming, wireless

10 Cookies: A deployment study and the testing implications

 Andrew F. Tappenden, James Miller

June 2009 **Transactions on the Web (TWEB)**, Volume 3 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (2.25 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 192, Downloads

The results of an extensive investigation of cookie deployment amongst web applications is found to be approaching universal levels and hence there are significant software engineering ...


Keywords: Cookies, Internet browser, Web engineering, Web technologies

11 Managing battery lifetime with energy-aware adaptation

 Jason Flinn, M. Satyanarayanan

May 2004 **Transactions on Computer Systems (TOCS)**, Volume 22 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.61 MB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 181, Downloads

We demonstrate that a collaborative relationship between the operating system and the application can achieve user-specified goals for battery duration. We first describe a novel profile of applications and ...

Keywords: Power management, adaptation



12 Communications of the ACM: Volume 52 Issue 10

 October 2009 Communications of the ACM

Publisher: ACM


Full text available:

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Bibliometrics: Downloads (6 Weeks): 5925, Downloads (12 Months): 5925, Downloads (24 Months): 5925, Downloads (All Time): 5925

13 Performance OpenGL: platform independent techniques or

 Tom True, Brad Grantham, Bob Kuehne, Dave Shreiner

August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.03 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 75, Downloads (24 Months): 75, Downloads (All Time): 75


The OpenGL Application Programming Interface (API) is the most widely interface available to programmers today. Such broad support of OpenGL challenges in maximizing ...

14 Power to the people: Leveraging human physiological traits to control

Alex Shys, Yan Pan, Ben Scholbrock, J. Scott Miller, Gokhan Memik, Peter J. ...

November 2008 **MI CRO '08: Proceedings of the 2008 41st IEEE/ACM International Conference on Computer-Aided Design and Computer Graphics**

Publisher: IEEE Computer Society

Full text available:  Pdf (2.68 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 75, Downloads (24 Months): 75, Downloads (All Time): 75


Any architectural optimization aims at satisfying the end user. However knowledge about the individual user. If architectures could determine what provide higher ...

15 Real-time shading

 Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool,

August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (7.39 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 648, Downloads (24 Months): 648, Downloads (All Time): 648


Real-time procedural shading was once seen as a distant dream. When years ago, real-time shading was possible, but only with one-of-a-kind hundreds of rendering ...

16 Radio interferometric geolocation

 Miklós Maróti, Péter Völgyesi, Sebestyén Dóra, Branislav Kusý, András Nád

November 2005 **SenSys '05: Proceedings of the 3rd international conference on Sensor Networks and Information Systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (458.64 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 131, Downloads (24 Months): 131, Downloads (All Time): 131

We present a novel radio interference based sensor localization method relies on a pair of nodes emitting radio waves simultaneously at slightly the composite ...

Keywords: localization, location-awareness, radio interferometry, ranging

17 [Communications of the ACM: Volume 51 Issue 7](#)

July 2008 Communications of the ACM

**Publisher:** ACMFull text available: [Digital Edition](#) , [Pdf \(6.54 MB\)](#) [Additional Information: full citation](#)**Bibliometrics:** Downloads (6 Weeks): 4781, Downloads (12 Months): 8720, Dc**18** [Power reduction techniques for microprocessor systems](#)

Vasanth Venkatachalam, Michael Franz

September 2005 **Computing Surveys (CSUR)** , Volume 37 Issue 3**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf \(602.33 KB\)](#) [Additional Information: full citation, abs](#)**Bibliometrics:** Downloads (6 Weeks): 101, Downloads (12 Months): 720, Dc

Power consumption is a major factor that limits the performance of computer systems. This paper presents techniques that reduce the total power consumed by a microprocessor system at various ...

Keywords: Energy dissipation, power reduction**19** [Communications of the ACM: Volume 51 Issue 11](#)

November 2008 Communications of the ACM

**Publisher:** ACMFull text available: [Digital Edition](#) , [Pdf \(8.26 MB\)](#) [Additional Information: full citation](#)**Bibliometrics:** Downloads (6 Weeks): 526, Downloads (12 Months): 3523, Dc**20** [Assessing demand for intelligibility in context-aware applications](#)

Brian Y. Lim, Anind K. Dey

September 2009 **UbiComp '09: Proceedings of the 11th international conference on Ubiquitous computing****Publisher:** ACM [Request Permissions](#)Full text available: [Pdf \(1.15 MB\)](#) [Additional Information: full citation, abs](#)**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 19, Dc

Intelligibility can help expose the inner workings and inputs of context-aware applications to their users due to their implicit sensing and actions. However, users may not always understand the inner workings of these applications ...

Keywords: context-aware, explanations, intelligibility, satisfaction[Result page:](#)

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